

IN THE CLAIMS

Please amend the status of the claims to that as indicated below:

Claims 1-19 (canceled)

20. (new) A method for evaluating travel and traffic situations with at least two temporally-synchronized and calibrated detection cameras arranged at a definite distance to one another on a first vehicle in a surrounding, by which a coordinate system pertaining to said first vehicle is defined, with detection regions of said detection cameras overlapping in a common overlapping region in the surrounding, comprising the steps of:

providing, with a common time control, a photogrammetric, position-calibrated, synchronized picture recording using said detection cameras;

selecting at least one naturally present reference point in the surrounding, or at least one reference point on at least a second vehicle is photogrammetrically calculated, for permitting any selected reference point to be detected in its actual, time-dependent spatial position within said coordinate system of said first vehicle; and,

upon considering location of either of a position and orientation of said detection cameras in said coordinate system of said first vehicle or of a position of the selected reference points in said coordinate system of said second vehicle, either:

the temporal and spatial location and position of any movement of said first vehicle in said coordinate system of the surrounding, or the temporal location and position and any movement of the reference points on at least one further vehicle, either in the coordinate system of the

surrounding, or in said coordinate system of said first vehicle, are being determined by photogrammetrical calculations in real time, so that data of said second vehicle or any additional vehicle are linked to the selected said reference points on said second vehicle or any additional vehicle; or

three reference points of said first vehicle, said second vehicle or any additional vehicle are linked to vehicle shapes as obtained from a database containing shapes of a multitude of vehicle types, so that an actual, time-dependent position, and therefore any movement of said vehicles in said coordinate system of the surrounding, or at least in said coordinate system of said first vehicle, is calculated photogrammetrically and therefore a virtual display of a course of a significant traffic situation is calculated photogrammetrically and displayed in a 3D-film for displaying real-time movement of any selected reference points and of any relevant object for evaluating the significant traffic situation and is viewable from any desired direction.

21. (new) A method for evaluating travel and traffic situations with at least two temporally-synchronized and calibrated detection cameras according to Claim 20, wherein said temporal and spatial location and position of any movement of said first vehicle in said coordinate system of the surrounding, or the temporal location and position and any movement of the reference points on at least one further vehicle, a calculation of the actual time-dependent position of said reference points and of said detection cameras in one or more of said coordinate system of the surrounding and said coordinate system of

said first vehicle and positions of tied-up vehicles taken from the database is effected via a computer, wherein movement data of at least said first vehicle are computer photogrammetrical.

22. (new) A method for evaluating travel and traffic situations with at least two temporally-synchronized and calibrated detection cameras according to Claim 20, wherein said temporal and spatial location and position of any movement of said first vehicle in said coordinate system of the surrounding, or the temporal location and position and any movement of the reference points on at least one further vehicle, the calculated position and movements of at least one said vehicle, via recorded, calibrated and thereby triangulable pictures of the surroundings and said reference points, are assignable to the triangulable pictures of the surroundings and contemporarily to the surroundings said coordinate system with a picture of the surrounding being additionally calculated and then superimposed which pertains to a momentary point in time and a calculated perspective of a viewer.

23. (new) An installation for recording travel and traffic situations of vehicles, comprising two detection cameras arranged at a definite distance to one another on a first vehicle, said two detection cameras each having a respective detection region with each said respective detection region overlapping to form a common overlapping region, said detection cameras being connected with a time control and a microphone, so that a picture recording is temporally synchronizable and spatial location and position of said two detection cameras in a coordinate system of said first vehicle is calibrated, so that in

relation to the positioning of said two detection cameras, calibrated photogrammetric pictures are recordable, and at least one selected natural reference point in the surrounding, or of at least one assigned reference point on at least a second vehicle is photogrammetrically calculable, thereby permitting said reference points to be recordable in their time-dependent positions, so that based on a performed time control, synchronized picture recording, an actual time-dependent position of said reference points in the surrounding, or said reference points of at least the second vehicle in said coordinate system of said first vehicle and taking into consideration the positioning of said coordinate system of said second vehicle, and an absolute position of said two detection cameras in said coordinate system of said first vehicle, the time-dependent position and movements of said first vehicle in said coordinate system of the surroundings or the position of at least one additional vehicle, either in said coordinate system of the surrounding or at least in said coordinate system of said first vehicle, is determinable by photogrammetric calculations, said installation further comprising a database containing data of vehicle shapes of a multitude of vehicle types, so that said vehicle shapes are able to be linked to said selected reference points defining location of said at least one additional vehicle.

24. (new) The installation for recording travel and traffic situations of vehicles according to Claim 23, further comprising at least one memory element coupled to said two detection cameras for serial storage of a picture sequence.

25. (new) The installation for recording travel and traffic situations of vehicles

according to Claim 24, wherein said serial storage of a picture sequence is a circular buffer and at least one additional non-volatile memory for storing at least one of photogrammetric calibration data and spatial camera arrangement in said coordinate system of said first vehicle.

26. (new) The installation for recording travel and traffic situations of vehicles according to Claim 23, wherein said two detection cameras are connected to a time control for the purpose of rendering an absolute time for respective picture recording determination.

27. (new) The installation for recording travel and traffic situations of vehicles according to Claim 26, wherein said time control is a radio clock.

28. (new) The installation for recording travel and traffic situations of vehicles according to Claim 23, further comprising a sensor for an automatic activation or securing of a data storage facility.